Missouri Botanical Garden

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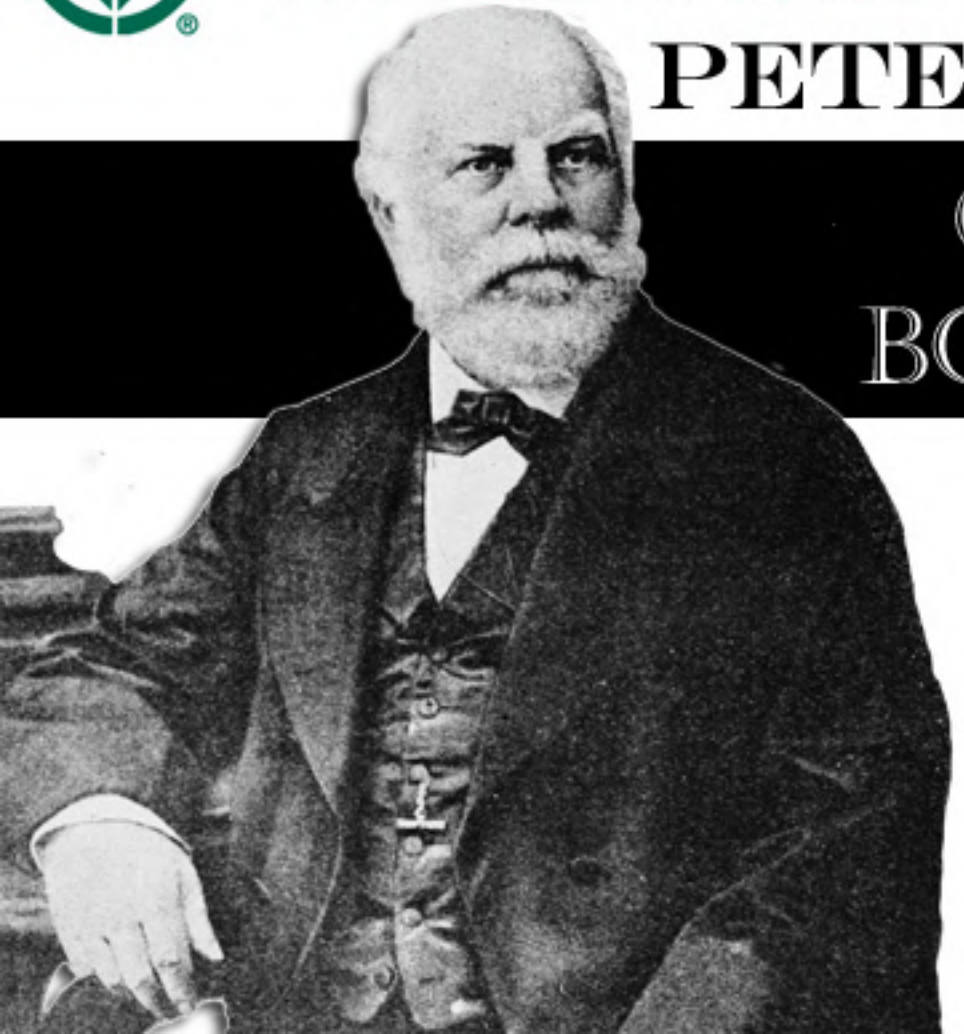


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

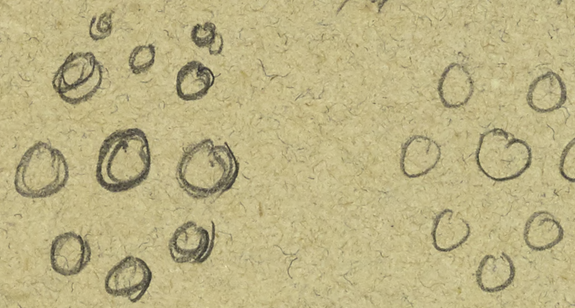
1362 Hort Leith, Bog, July 1869

Echinocaulon Hookeriana

Rush, 13 slightly spiral ribs (another plant is more globose & has 13 ribs)

5 × 4 inches

Spikes dark, reddish, all curved upwards, 3/4 – 1 1/4 inches long 8–10 (2 small additional upper ones anomalous) – spikes of seeds smooth



flowers towards tubinolate centre, in the manner of *E. reductus* yellowish, outside some-what reddish, 1/2 inches long

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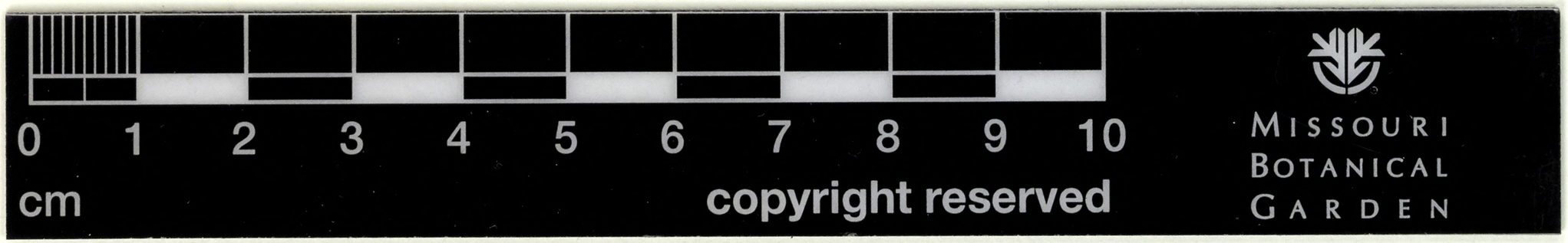

Echinocereus humilis

H. B. Vidc. July 28 1869

1363

Includes 304-5

×2

×4

nectarian cavity 1 mm long, really nectariferous but for the next 2 mm bases of stams adnate, not nectariferous for the next 3 mm, where the tubes widen, insertion of filaments.

Plant ovate, 10 oblique ribs, tuberled, strongly knobbed below the immersed areola.

~~Thorns~~ 3½ mm diamt. same length;

Pepal of tube & ovary 55–60 with axillary wool and bristles, in 11 oblique rows ($\frac{7}{18}$?) 28 inner sepals, naked in axil,

Petals 18 fringed, pale yellowish white ~~setting~~

style rose coloured, thick, stigmata whitish erect, incurved in a head, 7 or 8 in number.

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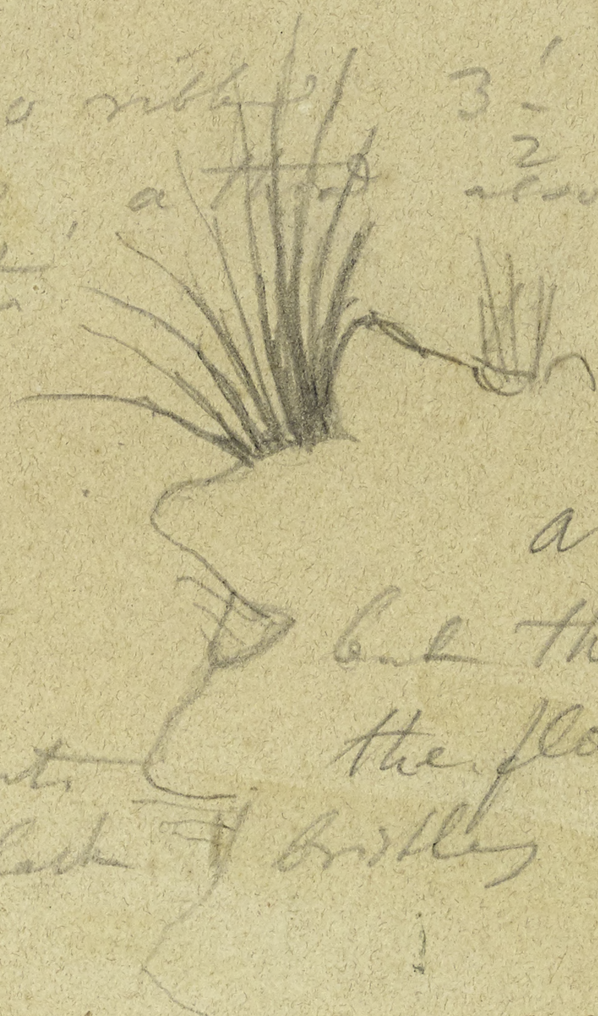
A Hanke's Prag July 10 1869

Echinocereus humilis, Baumann, sem ex Hort Panormit sub nom. humil,
——— Hankeanus Foerster



A globose Echinocer 10 ribbed 3½ inch diam ~~53 cm~~
another spec — has 13 ribs, a 2 — 10 —
Remarkable on account of the

9–10 black spines
tubercles under the
areolae very prominent
& the flower is
the flowerbud is surrounded
with black bristles.

areola triangular
like that of Ech. reductus,
yellow with red stigmata
with black wool

1364

same in Vienna, spines dark, crotch — plt ovl

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Paris March 1869

Echinocactus horripilus, 2" diameter, globose
(dead specimen at Weber's, living at Pfersdorff's)
is a mamillaris in shape, and in the form of the
flowers - naked ovary, rather small flowers.

But the flowers come from the top of the
Mamillae, similar, therefore to the
mirabilis (Echinocactus Simpsoni with only very
flowers rather smell, bluish-purple.)

1365

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Echinocactus macrodiscus

when bought sp. from Queretaro

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Hok Guedeney, Vrsinet 5/4 69

Echinocactus "Holopterus m.g." / so called in
Coll.. Guedeney / Probably synonym of Echinocactus Dr (vide
x E. Horbalii Lem.
is a plant which in youth is densely covered
with the white spoty tufts of wool, found on Mypio-
stigma and often allied ones; but in age
it loses these and becomes green. —
. Perhaps only a var. of the common
form of

1366

C. holopterus, Horbalii & Capricorni like
very similar and very peculiar seeds

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Host Guadeanay, Dec 5/69

Echinocactus Hajnii (South America)
flowers from the old areolle on top of
the short mamillae, and the flower is
not to be exactly like that of Cereus
flagelliformis —

1367

Say not a short, globose Cereus of
same order?

It seem that the flower appear close
above the spiniferous areola, from a well
formed woolly floriferous areola.

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Al Hanke's Prag, July 10th 1869

Ech. n. hystricacanthus 4 inches high, 9/8 bore 13–16 mL
flower from last areole of last year.–
flower white, very much like denudatus, or still more like
reductus – 5–6 transverse sepals on ovary.

Echinocereus hystricacanthus ovary & tube covered
with reniform scales, without any axillary bristles.
(H. Jacoby Cocles Jan 1887

1368

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Hort Leid. Prof. Dr. 10. 1869

Erh. solanaceum
= inornatus

1369

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Dr A Weber, Paris March 1869

311-321

Echinocactus ingens

with a large number of synonyms

(Helophorus, aulacogonus, Visnaga,

Kawinskii, platygonus, platyacanthus)

Largest plants 2 metres high and 1 m in

diameter

Plants at different ages look very different.

Vigorous young plants have oval or even

circular areolae, and their full

number of spines; when they grow older

the areolae become elongated and

then they form a continuous groove

on the edge of the rib.

At the same time they loose their

smaller spines and show often

only 4. 2 or even only one on each

areola.

ingens — large, oval, distant areolae — 9 spines

helophorus — linear elongated areolae continuous — with 12 spines

aulacogonus " " " — 10 spines

Kawinskii = ingens dwarf

platyacanthus — long areolae — 7-8 spines

1370

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Ech. platyacanthus Link & Otto is an ingens with
very long, linear, spreading areol. and 2 — 3
laterally compressed spines — 17 old and 8
new short — 2 6, — all 25. —

1371

Hort Berlin Jun 1869

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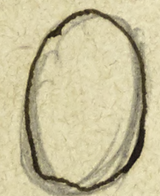

areola

1872

E. ingens = acclavogonus =
edulis ; no perisome longer
than 8 inches or 10 ; always
with the brown red marks, areolæ basi bulbosi — spines
have 12 angles ; vertex tomentose
areola oval

Hort Dyck Aug 1857

high, globose or a little depressed.

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Malacocarpus corynodes, and also
and Cumulii have the same
kind of yellow flowers 1–1½ inch long
and wide, with very numerous petals

Echinocacti in Fort Dyck

1373 Aug. 1857

E. helophorus is again the plant which Dr Coulter sends for ingens. The specimen is 10 inches high and has on top 21 ribs — (they are just dividing near top) — top woolly. — Areola oval, large rufal spin acicular lower one stoutest, flattened, ribbed annulate I find no lateral bristle-spines.

form & size of areol

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and red stigmata. The plants
seem identical.

M. pallowianus however appears
distinct. — They rarely ought
to be separated from E. horacetus.
M. Coronatii has longer
& rougher & acuter,
shorter spines.

E. asbestinus & angles, oval
or even cylindric: 12 ribs high

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"Ech. platyceras" Hort Kew Aug 1857
arrangement of spines similar to E helophorus, but the
lower spine is the stoutest and a little curved
in helophorus the upper central is the stoutest, and
straight slightly inclined upwards. It has also a
woolly top but more depressed than in helophorus

1374

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Sellersville Pa. Oct. 30th 1883

Dr. Geo. Engelmann

Dear Sir

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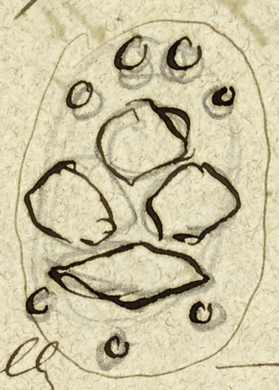
Hort Kew Aug. 1857

Echinocactus helophorus seems to be the same as E. ingens Bosely (non Zucc.?) old plants of which are very large ones

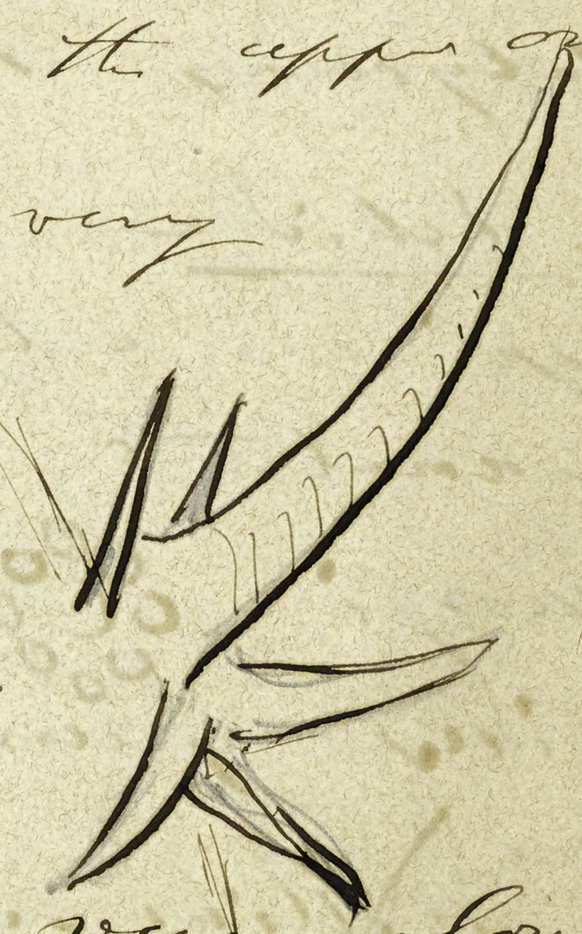


have 4 central and usually 7 radial spines; young plants are different

old young plants

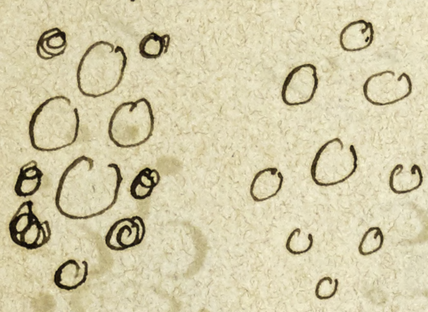
1375

Ech. ingens, as named here, is the same as E. helophorus; specim. abt 20 inches in each diameter; 33 ribs, another with 29 ribs; usually the lower 1 or the shortest central sometimes the upper one; sometimes in very old plants



I find very few spines, only 6 or sometimes by the addition of a couple of very weak lower ones

8. — the areola is then very elongated and the spines themselves are flattened laterally, and quite compressed.

An Echinocactus without name 2 feet high
1 1/2 feet in diameter; 24 acute ribs,
deep grooves, continuous areolae
areolae young spines yellow, transparent
 spines indistinctly annulated,

Can it be E. Ottonis?

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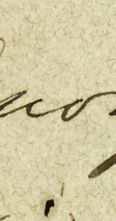
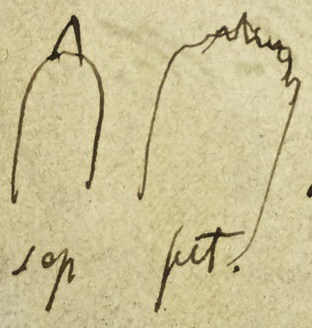
Ech. platyceras has a very similar arrangement of spines as E. helophorus, but the lower spine is the stoutest, and a little curved; in E. helophorus the upper central spine is ~~curved~~ the stoutest and is ✓ moreorless recurved upwards. — both have woolly tops, but platyceras is more depressed.

Ech. Echidne = Electracanthus apparently; spines nearly the same, nearly equal annulated; ribs 21 sharp ribs; young spines yellowish greenish.



Ech. Williamsii 8 rosered, 1 inch long, 5 pale red stigmata; away from woolly base, naked, or tube 13 green scales with spiny chestnut tips 13–15 petals —



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Echinocystis is here also the plant named as
in Berlin, and said to have been raised
from original seeds; a specimen only 10
inches or 12 high — healthy, with beautiful
brown stipes. Its habit I take to be
Kunowskii

1376

Dr Mahlenford's coll. Hannover Jun 1857

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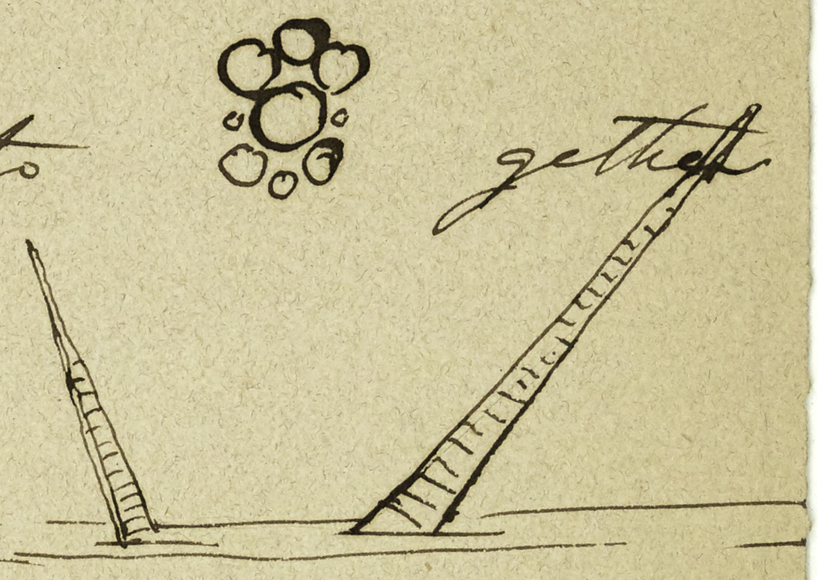
Echinocereus aulacogonus (= ingens)

Hort Jardeney, District 5/4 69

lower part of plant with 4 central & 5 exterior (lower) spines.

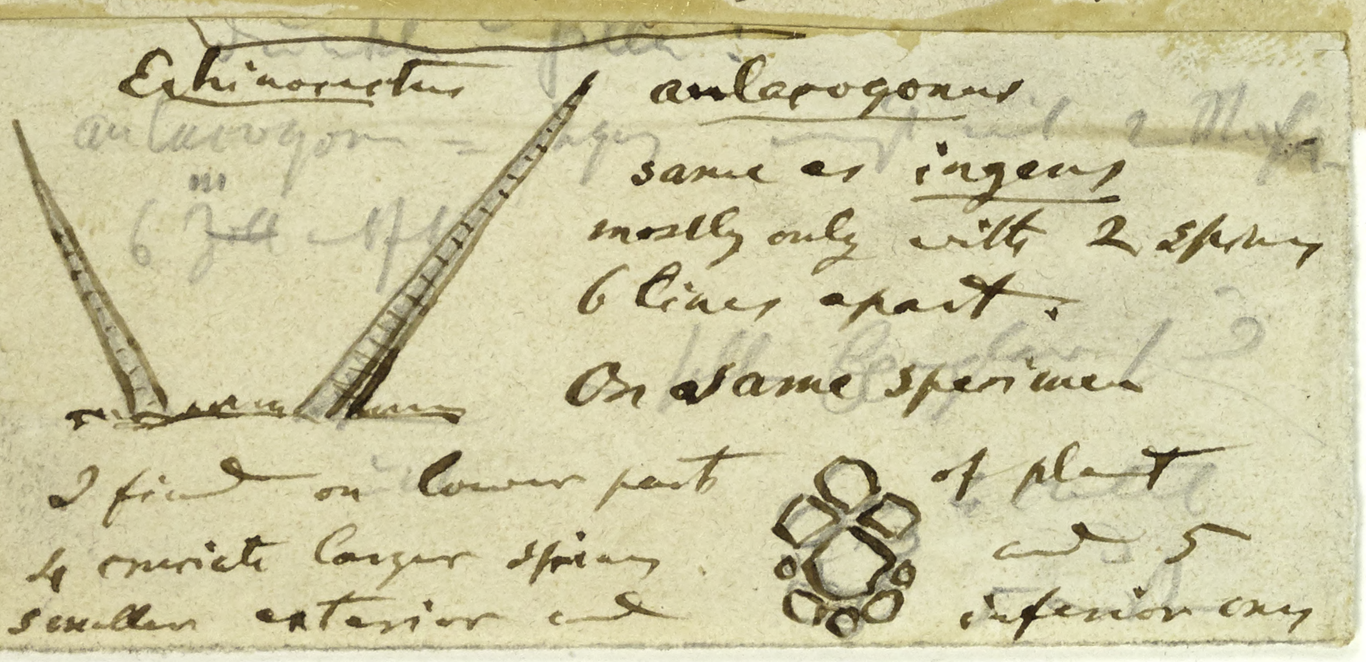


Upwards the areolae run to get the and only two spines are formed, sometimes only one. The lower one stouter.

E. ingens at Arendts' (2/4) has orbicular areolae when young, older ones become elongated and at last they run together into a long groove

When it is E. aulacogonus

1377



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Echin. ingens

San Luis Potosi Mex

April 24 1878

Dr Parry

×8

Smooth

×10

12 stig.

Stamens 12 mm

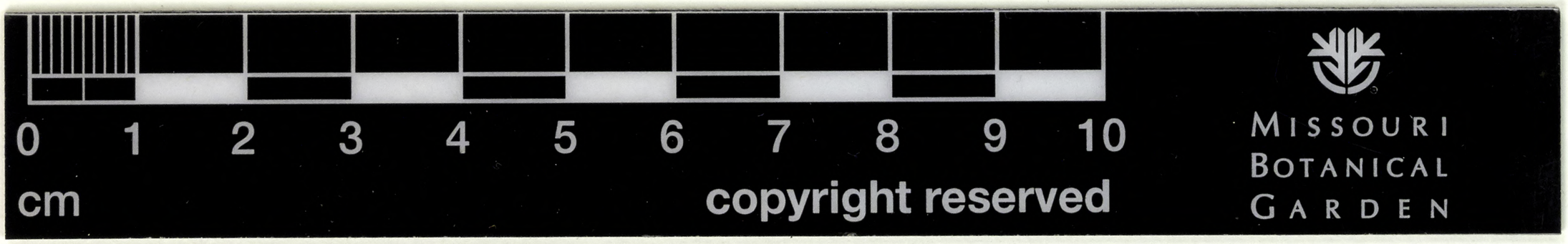
ovary 7 mm

Corolla shut

Bllen ×4.5

= 0.057 - 0.060 in m

1178



Henry T. Rohlfing,

APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... *Date,* *187*

℞

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Geo. Engelmann, M. D.,
No. 3003 Locust Street.

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Notes made at
Dr Berlin's Berlin
March 1857

1379

4 Echinocereus Bonly (non Jussieu?)
lower central spine shorter
& broader, upper one shorter
& longer; 3 or 4 upper radial
ones — 2 other; especially younger specimens the lower
broad spine is also stouter & longer than the upper one
— The central spine in young specimens are stouter than
in older ones
Young plants 2 years old have clavate-cylindric, with 5 tubercled
ribs → 4 dark spines on each areola. — A plant 3 or 4 inches high
has 13 ribs — Still ones have 25 ribs — 5 feet high at least 3 feet
Root (Epiliferous has 9 ribs & is 5/6 feet high) somewhat pear-
shaped

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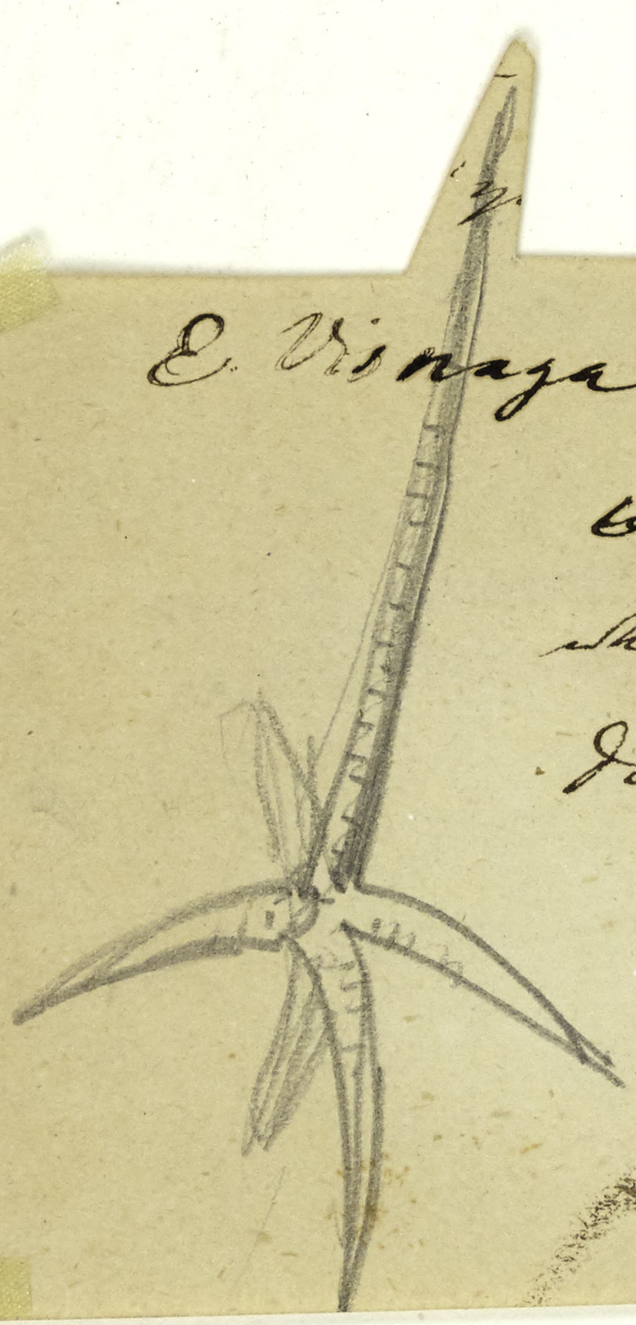

E. Virginia Hook – (30 or 40 ribs ?) Dec May 1859

Wing enveloped in wool – Anthers black if probably in : fl. & fr. Sept

Dentate-lobed petals – 12 or 15 yellow stigmata.

1380

4 spines annulated, 1 larger upward 3 smaller downward

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Synops Cart.

p. 19. E. ingens Juss. has woolly fil. ✓ Dr

Boulger's plant seems distinct: ends

only, in long — fil — : woolly

vertex but probably? not covered

by wool.

1381

note in red Dr Boulger's March 1897

x seed 2 l. long

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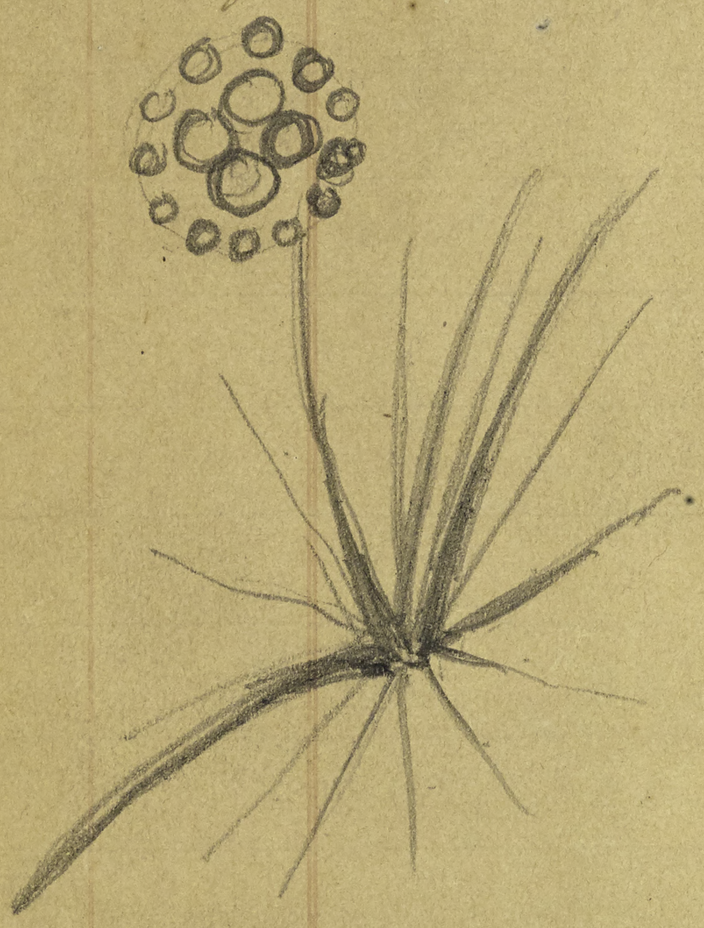
322-16

Echinocactus Johnsoni Parry in sched. obtectus

ovatus, e basi saepe proliferus, costis robustis carneis rubellis intricatis
~~15–21 costis~~, costis 15–21 saepe obliquis, interruptis; aculeis centralibus 4 robustioribus
teretiusculis basi nodosis, 3 superioribus arcuatis, inferiore
decurvo; radialibus 12–14, superioribus 3 longioribus;
vertice tomentello, (10 & Parry)

flore[illegible].



Specimen before me 4–5 inches high 3½ in diam.
(without spines; ribs shallow, only ¼ inch apart; grooves
very shallow; areolae on ribs 7–8 lines apart (from
centre to centre, nearly 3 lines ½ diam.
Central spine 3/4–4 cent 1½–1¾ inches long,
radial 2–3 cent, 1–1½ inch long.

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Echinocactus Johnsonii Parry

Watson Bot. of Cantl

1871 p. 117

1383

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Echinocereus Johnsonii alleg 7 1877

South Utah

So Utah Apl 77

viride

13-15 ventricosus ribs

on angs

12 stigm. 3mm long

style 15mm long

1384

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Leitch & Corlies

WHOLESALE DRUGGISTS

South West Corner Fifth and Market Streets.

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C. Johnsoni Parry mss. midterigid, oval, with 17–21 lvs,
low ~~stem~~ peduncle rounded, glandular-pubescent; cyme dense, with stout reddish gray spts,
extension ons 10–14, appressed; ~~corolla~~ 4 stouter, curved
tuppurple or pink flowers ~~with~~ narrow, uniform, ~~white~~ equals or exceeds the tube
ovate obtuse petals. Seeds ~~rather~~, reticulate-pitted.—

1385

Alkali Gunnison Utah, discovered by C. C. Johnson, whose ~~interest~~ zeal
the development of the natural history ~~of~~ resources of his
region is commemorated by the name of this ~~beautiful~~ species. Plant
1–6 inches high, densely cyme with nis close, often
1/2–1 1/4 inches as ~~low~~ 1/2 inches long; flow 2 or 2 1/2 inches
long and wide.

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Echinocactus Johnsoni

1386

Largest Specimen 12—14 inches
Diameter

(J. Palmer 1877

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Carpest Echinocactus Johnsoni

14 inches high

S E Palmer May 27 1877

1387

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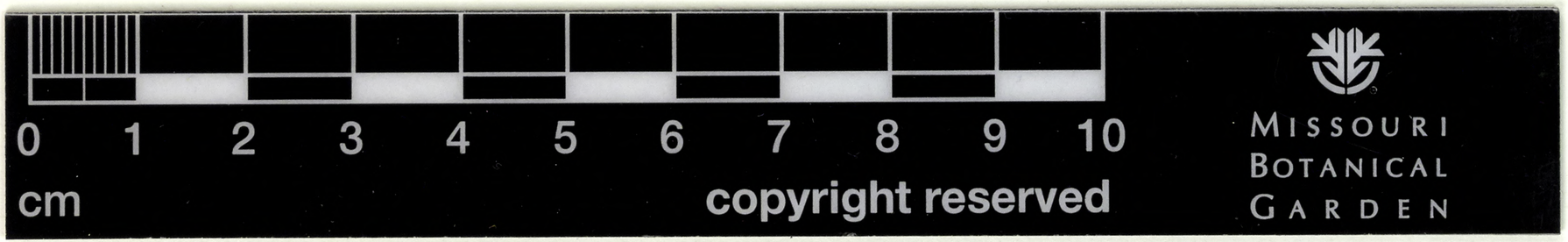
1747 F St., N. W.,

Washington, D. C., June 15, 1877.

To Dr. Engelmann